

**ADHESION OF HEPARIN-CONTAINING COATINGS
TO BLOOD-CONTACTING SURFACES
OF MEDICAL DEVICES**

5

Syed F. A. Hossainy

Wouter E. Roorda

ABSTRACT OF THE DISCLOSURE

10 The present invention relates to coatings of heparin derivatives on blood-contacting surfaces of medical devices, in particular on the surfaces of endoluminal stents, wherein the coatings have improved adhesion in comparison with conventional coatings heparin derivatives. Multiple component coatings are described in which compounds having therapeutic benefit are coated jointly with
15 substances promoting adhesion. Multiple layers of coating are described including adhesion-enhancing primer layers. Surface pre-treatments enhance adhesion in some embodiments, including surface roughening. Baking of heparin-containing compounds following coating also enhances adhesion in some embodiments.